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नई दिल्ली, शनिवार, अक्टूबर 13, 1990 (आश्विन 21, 1912)
NEW DELHI, SATURDAY, OCTOBER 13, 1990 (ASVINA 21, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 13th October 1990

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates, III Floor,
Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

aphic address "PATENTOFIC".

Patent Office Branch,
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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
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5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्य तथा अधिकल्प

कलकत्ता, दिनांक 13 अक्टूबर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं। इनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेड,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,

61, बालगंगा रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित पाण्डिचरी, लक्षदीप, मिनिक्काय तथा एंमनिकरिच दीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय अट्टनलीय कार्यालय
मकान 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बास रोड,
कलकत्ता-700 020

भारत का अन्वेषण क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को मुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को मुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा किया जा सकती है।

PATENT OFFICE BRANCH, BOMBAY-400 013

CORRIGENDUM

(I) *Gazette of India Part III, Section 2, dated 17-3-1990*

- (i) In respect of Patent application No. 278/Bom/1986 (166112) on page No. 271 under Title. Add :—“Title—Paper detector of printer”.

(II) *Gazette of India Part III, Section 2 dated 7-4-1990*

- (1) In respect of Patent application No. 29/Bom/1990 on page No. 359 under New application filed read patent application “29/Bom/1990” for “24/Bom/1990”.
- (2) In respect of Patent application No. 66/Bom/1987 (166302) on page No. 378 under application No. read application No. “66/Bom/1987” for “166/Bom/1987”.

PATENT OFFICE BRANCH, NEW DELHI-110 005

CORRIGENDUM

In the Gazette of India Part III, Section 2 dated August. 5, 1989 under the heading “Alteration” on page 726 in respect of Patent specification No. 165040.

For Ante Dated to 24th January, 1984

Read Ante Dated to 22nd April, 1985.

THE PATENT OFFICE

Calcutta, the 13th October, 1990

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135 of the Patents Act, 1970.

The 4th September, 1990

760/Cal/90 General Electric Company. Low capacitance, large area semiconductor photodetector and photodetector system.

761/Cal/90 Beloit Corporation. Basket profile for screens.

762/Cal/90 Beloit Corporation. Process and mechanism to empty pulping digester.

The 5th September, 1990

763/Cal/90 Phillips Petroleum Company. Chromium compounds useful as catalysts for polymerization of olefin.

764/Cal/90 Thyssen Stahl Aktiengesellschaft. Process for improving the cold formability of heat-treatable steels.

765/Cal/90 The Babcock & Wilcox Company. Internal impact type particle separator.

766/Cal/90 Macrovision Corporation. Method and apparatus for encrypting and decrypting time domain signals.

767/Cal/90 Envirex Inc. Method and apparatus for producing organic based fertilizer in a batch process.

The 6th September, 1990

768/Cal/90 Nani Gopal Ray. Atmospheric and gravitational power plant.

769/Cal/90 Mrs. Vijaya Pagala. In vitro electromyography chamber.

770/Cal/90 The Babcock & Wilcox Company. Chloride controls in fossil fuel fired wet scrubbing process.

The 7th September, 1990

771/Cal/90 Munters Euroform GmbH. Fill pack.

772/Cal/90 Somar Corporation. Expandable powder coating composition method of coating a substrate with heat-insulating foam and composite material obtained thereby.

773/Cal/90 Mitsuba Electric Manufacturing Co., Ltd. Stator of magneto generator.

774/Cal/90 The Babcock & Wilcox Company. Air foil lance apparatus for homogeneous humidification and sorbent dispersion in a gas stream.

775/Cal/90 Siemens Aktiengesellschaft. Vibration-free starting and braking control for conveying systems.

776/Cal/90 Gosudarstvenny Nauchno-Issledovatel'skiy I Proektny Institut Azotnoi Promyshlennosti I Produktov Organi Cheskogo Sinteza (Giap). Process for producing hydrogen-containing gas.

The 10th September, 1990

777/Cal/90 Prokash Chakroborty. M.P.P. mixture.

778/Cal/90 E.I. Du Pont De Nemours and Company. Process for purifying hydrogen fluoride.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 27th August, 1990

677/Mas/90 P. Panneerselvan & Haji K. C. M. Mohamed Ali. Manufacturing of gallic acid.

678/Mas/90 Waheed Arshad. A key board for typing/printing urdu script.

679/Mas/90 Sanjar Ali Khan. Digitally synthesised power inverter.

680/Mas/90 Snamprogetti S. p. A. Process for purifying the effluent from urea production plants.

The 28th August, 1990

681/Mas/90 Esmil water Systems BV. Membrane Electrolysis apparatus and method of removing metal ions using such apparatus

682/Mas/90 Maschinenfabrik Rieter AG. A yarn-winding mechanism having a spindle bearing housing secured to a spindle rail.

683/Mas/90 Maschinenfabrik Rieter AG. Spinning machines having double-apron drafting units.

684/Mas/90 Hoechst Aktiengesellschaft. Process for obtaining almost fluorescence-free xanthenes.

The 29th August, 1990

685/Mas/90 Usinor sacilor. Device for the continuous casting of molten metal between two parallel rolls.

686/Mas/90 Friedrich Grohe Armaturenfabrik GmbH & Co. Shower-head.

687/Mas/90 Friedrich Grohe Armaturenfabrik GmbH & Co. Shower-head.

The 30th August, 1990

688/Mas/90 Saji V. Locked T. V. Antina Rotator.

689/Mas/90 Che Bong Lau. Improvements in combustion engines. (September 29, 1989; United Kingdom).

690/Mas/90 Pharmacia AB. Fluid pump with flexible pump chamber.

691/Mas/90 Pharmacia AB. Fluid pump with associated drive means.

692/Mas/90 Foseco International Limited. A two part feeder pattern for producing a metal casting and a method for producing the same. (Divisional to Patent Application No. 997/Mas/86).

The 31st August, 1990

693/Mas/90 Aware, INC. Improved image compression method and apparatus.

694/Mas/90 Pont-A-Mousson S. A. Device for fixing friction patches on a valve disc.

695/Mas/90 Maschinenfabrik Rieter AG. A spindle.

696/Mas/90 Tokai Denki Kabushiki Kaisha. Forced air cooling device for heat generating portions of railroad vehicles.

ALTERNATION

167348 : Anti-dated to November 24, 1984. (916/Mas/84)

167350 : Anti-dated to November 06, 1985. (62/Mas/89)

167368 : Anti-dated to January 30, 1985. (693/Cal/88)

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT 1970.

(1)

Claim made by Macrovision Corporation U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 165570 in their name has been allowed.

(2)

Claim made by the Hoechst Colanese Corporation U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 159110 in their name has been allowed.

(3)

Claim made by Hoechst Colanese Corporation U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 159911 in their name has been allowed.

(4)

Claim made by Siemens Aktiengesellschaft U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 163199 in their name has been allowed.

(5)

Claim made by Ajit V. Mehta, 3548, Illinois Road, Wilmetta, Illinois 60091, U. S. A., a citizen of U. S. A., under Section 20(1) of the Patents Act 1970 to proceed the application for Patent No. 166131 in their name has been allowed.

(6)

Claim made by Applied Industrial Materials Corporation U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 165731 in their name has been allowed.

(7)

Claim made by Limitorque Corporation U/s 20(1) of the Patents Act 1970 to proceed the application for Patent No. 161344 in their name has been allowed.

PRINTING SPECIFICATION PUBLISHED FOR SALE

163858 164482 164920 165001 165074 165101 165154 165182 165201
165204 165223 165232 165244 165245 165246 165247 165251 165252
165253 165254 165255 165257 165258 165259 165263 165264 165265
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165613 165614 165615 165616 165617 165618 165619 165620 165625
165626 165627 165629 165633 165635 165636 165637 165673 165740

PATENTS SEALED

159110 161344 165731 165760 165826 165849 165861 165863 165865
165866 165869 165870 165871 165872 165873 165876 165878 165881
165882 165886 165887 165888 165889 165891 165892 165893 155895
165898 165899 165900 165901 165903 165904 165905 165910 165915
165916 165917 165921 165988 166007 166008 166009

CAL—24

DEL—14

MAS— 5

BOM—NIL

AMENDMENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that R. P. Aneja, an Indian National, Rajgharia Mansion, 11/1 Rowdon Street, City of Calcutta, State of West Bengal, India, and National Dairy Development Board, a body corporate constituted under the National Dairy Development Board Act, 1987 (37 of 1987) Anand, State of Gujarat, India have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 167221 for "A process for preparing a vaccine against theileriosis in Cattle."

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

145013 147277 147768 148037 148099 148152 148562 148637 148648
148979 149621 149880 150531 150575 150842 151040 151101 151124
151154 151523 151661 151779 152056 153414 153429 153430 153563
153686 153765 153983 154001 154061 154077 154124 154147 154301
154547 154634 154901 155638 155720 155721 155786 155787 155808
155861 155878 155883 155886 155887 155916 156205 156451 157312
157402 157534 157539 157566 157608 157863 157869 157917 157943

157944 158081 158096 158098 158131 158198 158256 158441 158487
 158497 158531 158823 158909 158910 158912 158915 158963 159022
 159040 159045 159046 159097 159106 159188 159287 159288 159314
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 160209 160273 160277 160287 160389 160468 160502 160503 160524
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 162492 162626 162647 162649 162787 162858 162875 162917 162918
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 164609 164620 164775 164917 164972 165058 165129 165311 165315
 165326 165332 165367 165368 165374 165416 165429 165454 165456
 165459 165469 165706 165707 165750

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अक्षयगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कामजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

Ind. Cl.: 32-E-[GROUP-IX(1)]
 Int. Cl.: C 08 F 136/08

167341

A PROCESS FOR HOMOPOLYMERIZING ISOPRENE

Applicant: ENICHEM ELASTOMERI S. p. A., A COMPANY ORGANISED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO, 55-PALERMO, ITALY.

Inventors: (1) ANTONIO CARBONARO, (2) SAN DONATO MILANESE.

Application No. 421/Maa/86 filed on May 29, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A process for homopolymerizing isoprene in a virtually solvent-free and diluent-free environment by using a catalyst system composed of: (a) neodymium oxide; (b) at least one organometallic alkyl-cycloalkyl- or alkaryl substituted aluminium compound; (c) at least one halogen compound such as herein described and (d) at least one hydroxyl-containing compound selected from the group consisting of water, alcohols and carboxylic acids, characterized in that the gram atom ratio of aluminium to neodymium in the catalyst system does not exceed 20:1, the homopolymerization reaction being carried out at a temperature between 50°C and 75°C and for a time from 10 to 40 minutes.

Compl. Specn. 12 Pages.

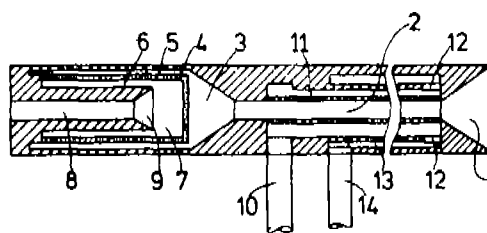
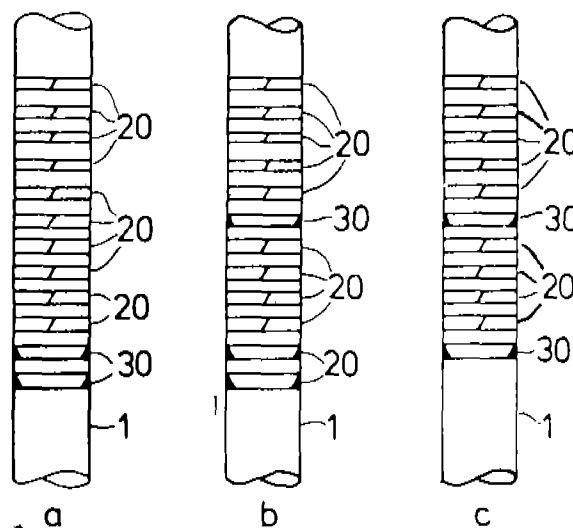
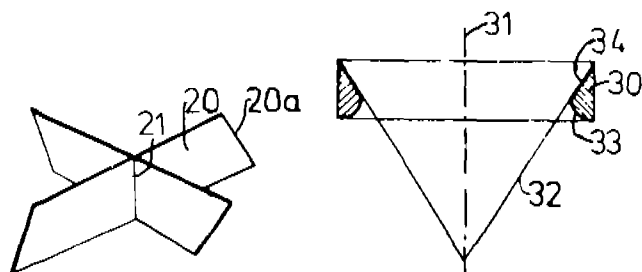
No Drawing.

Ind. Cl.: 40-F-[GROUP-IV(1)]
 Int. Cl.: B 01 J 8/10

167342

GAS SUSPENSION REACTOR.

Applicant: F. L. SMIDTH & CO. A/S, 77, VIGERSLVALLE, DK-2500 VALBY, COPENHAGEN, DENMARK, A COMPANY INCORPORATED IN DENMARK.



**Applicant : HENKEL KOMMANDITGESELLSCHAFT AUF
AKTIEN, OF HENKELSTRASSE 67, DUSSELDORF, FEDERAL
REPUBLIC OF GERMANY, A COMPANY ORGANIZED AND
EXISTING UNDER THE LAWS OF THE FEDERAL REPUBLIC
OF GERMANY.**

Inventors : (1) ROBERT PIORR, (2) HANS JOSEF ROMMERSKIRCHEN, (3) HORST RITTERBEX, (4) FRANTISEK HOST.

Application No. 493/Mas/86 filed on June 26, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for the production of aqueous pastes of alpha-sulfofatty acid ester salts which, despite high solids contents, are mobile and, in particular pumpable at moderately elevated temperatures of from 40 to 60°C by sulfonation of fatty acid alkylesters with SO₃ in molar ratios of up to 1 : 2 and more especially of from 1 : 1.2 to 1 : 1.8 and subsequent working-up of the crude sulfonic acid having a degree of sulfonation of at least 90% by weight by means of aqueous bleaching and neutralization agents with salt formation, wherein before treatment with aqueous bleaching and neutralization agents, the crude sulfonic acid is reacted with at least 0.5 mole equivalent, based on the SO₃ not used for the alpha-sulfonation, of lower alcohols and/or the ethylene and/or propylene oxide adducts thereof at temperatures from 70 to 100°C and solids contents of the alpha-sulfofatty acid ester salts from 35 to 65% by weight are adjusted in the following working-up by means of aqueous bleaching and neutralization agents.

Compl. Specn. 20 Pages.

Drg. 3 Sheets.

Ind. Cl. : 99-A-[GROUP-XL(4)]
Int. Cl. : F 22 D 1/08

167345

A CULINARY VESSEL OF IMPROVED THERMAL EFFICIENCY.

Applicant & Inventor : KALBAG NAGESH, C/O DR. KAPPIKAR, 22 VYASAR STREET, TAMBARAM EAST, MADRAS-600 059, TAMIL NADU, INDIA, INDIAN NATIONAL.

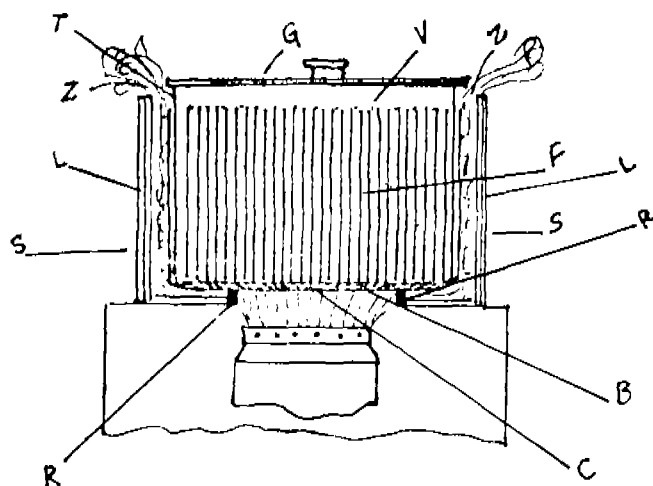
Application and Provisional Specification No. 521/Mas/86 filed on July 8, 1986.

Complete Specification left February 6, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims

A culinary vessel of improved thermal efficiency, having a plurality of spaced fins provided on the exterior of the base of the vessel, the fins extending from the said base along the exterior of the sides of the vessel up to, or near, its top, the fins being either rigidly attached to, or formed integral with, the exterior of the vessel, the said vessel being provided with a skirt member spaced from, and surrounding, the vessel, the inner periphery of the skirt member having a high heat radiating surface, while an outer layer of thermally insulating material surrounds the said surface.



Prov. 6 Pages.

Drg. 1 Sheet

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl. : 98-E & G [GROUP-VII(2)]
Int. Cl. : F 28 D 13/00

167346

DEVICE FOR THE CONTROL OF HEAT ENERGY EXCHANGED WITH A FLUIDIZED BED.

Applicant : CHARBONNAGES DE FRANCE (ETABLISSEMENT PUBLIC), OF 9, AVENUE PERCIER, 75008 PARIS, FRANCE.

Inventor : GUY MARLAIR.

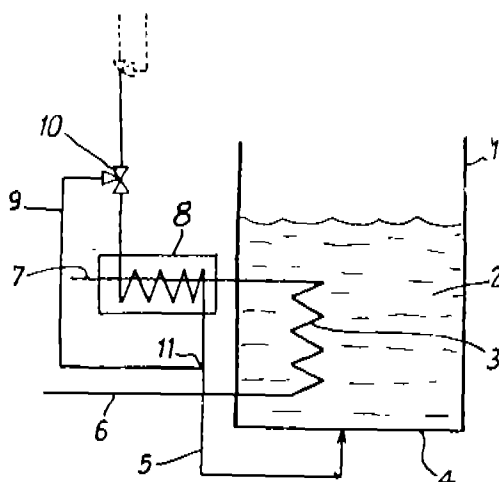
Application No. 546/Mas/86 filed on July 16, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

Device for the control of the heat energy exchanged with a fluidized bed, in a plant comprising a fluidization enclosure (1) containing a reacting substance in a fluidized bed state (2), a fluidization grid (4), a delivery line (5) for fluidizing gas directed through the fluidization grid (4), an internal heat exchanger (3) at least partly immersed in the fluidized bed and carrying a heat-transfer fluid by means of a delivery (6) and discharge (7) circuit, characterized in that it consists :

- (a) of an external heat-energy exchanger (8) fed, on the one hand, via the fluidizing gas delivery line (5) and, on the other hand, via the heat-transfer fluid discharge line (7), and
- (b) of a controllable-flow line (9) fitted as a bypass in relation to the said external exchanger (8).



Compl. Specn. 9 Pages.

Drg. 1 Sheet.

Ind. Cl. : 143-D4-[GROUP-XL(5)]
Int. Cl.⁴ : B 65 B 51/00

167347

AN APPARATUS FOR TIGHTNESS CONTROL OF A JOINT.

Applicant : AB AKERLUND & RAUSING, A SWEDISH COMPANY, OF BOX 22 221 00 LUND, SWEDEN.

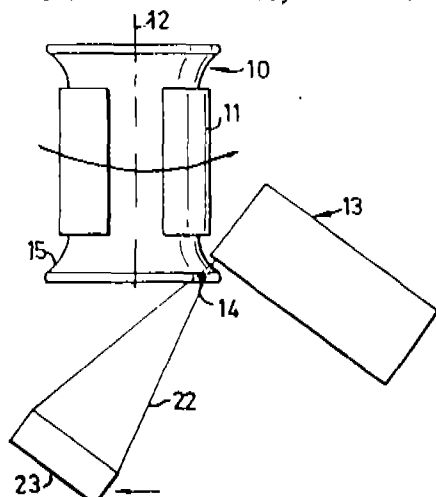
Inventors : (1) LENNART LARSSON, (2) HAKAN OHLSSON, (3) BO ULLMAN.

Application No. 631/Mas/87 filed on September 1, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An apparatus for tightness control of a joint between a first element (18) which covers an opening in a second element (21), and the marginal region of the opening in said second element, and where a rim (15) is arranged around the opening and comprises said joint, the said apparatus comprises a radiation source (13) for illuminating a small point of the joint (16) from either side thereof, a detector (23) disposed at the other side of the joint, a scanner for scanning by moving the illuminated point across the width of the joint, means for rotation of said first and second elements around an axis (12) generally perpendicular to the plane of the opening, and means for evaluating the characteristics of the radiation detected by the said detector (23).



Compl. Specn. 9 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 85-G-[GROUP-XXXI]
Int. Cl.⁴ : C 03 B 5/16

167348

A FOREHEARTH FOR THE CONVEYANCE OF MOLTEN GLASS.

Applicant : EMHART INDUSTRIES, INC., OF 426 COLT HIGHWAY, FARMINGTON, CONNECTICUT 06032, U.S.A.

Inventor : JOHN FRANKLIN BLUMENFELD.

Application No. 677/Mas/87 filed on September 18, 1987.

Divisional to PA No. 916/Mas/84, Ante-dated to 24-11-84.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A forehearth, for the conveyance of molten glass having at least one cooling zone, said cooling zone comprising a trough, a roof over said trough, two spaced projections extending downwardly from the roof to define in the space below the roof a central channel over the central portion of a stream of molten glass in the trough and side channels over respective side portions of the stream of glass, top cooling means at the portion of said roof over the central channel for extracting heat from said central channel, and a plurality of heaters spaced longitudinally along the sides of the forehearth for heating a portion of the stream of glass, characterized in that the spaced projections extend downwardly toward the glass below the centreline of the heaters so that their outside surfaces radiate heat back to the outside edges of the stream.

Compl. Specn. 12 Pages.

Drgs. 5 Sheets.

Ind. Cl. : 107-F-[GROUP-XLVI (2)]
Int. Cl.⁴ : F 02 P 1/00.

167349

A BALLASTED IGNITION COIL FOR USE IN AUTOMOBILES.

Applicant : LUCAS-TVS LIMITED, PADI, MADRAS-600 050, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

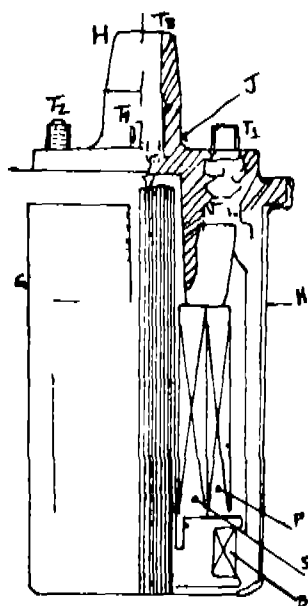
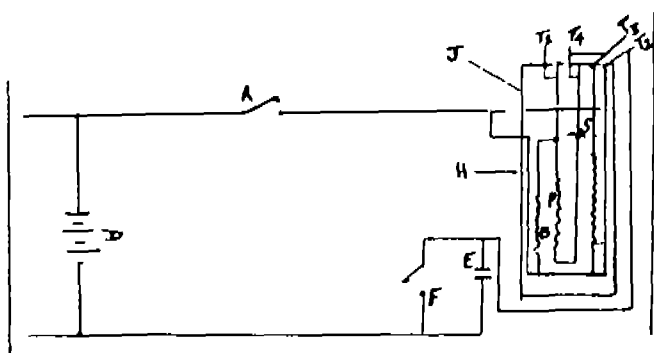
Inventors : (1) MAYUR ANANTHACHARI SRINIVASAN, (2) NALLICHERY SURYANARAYANA RAMANATHAN, (3) KESAVU SRINIVASAN.

Application No. 46/Mas/88 filed on January 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A ballasted ignition coil for use in automobiles comprising a primary winding wound over a secondary winding, said windings being assembled within a housing covered with an insulated top provided with terminals characterised by a multiple layer ballast winding also assembled within the housing, said ballast winding being wound separately on a perforated coil base and connected in series with the primary winding.



Compl. Specn. 6 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 130-F-[GROUP-XXXIII (7)]

167350

Int. Cl.⁴ : B 01 F 3/04; 7/16.**APPARATUS FOR TREATING MOLTEN METAL WITH A GAS.**

Applicant : FOSECO INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285 LONG ACRE, NECHILLS, BRIMINGHAM, B7 5 JR, ENGLAND.

Inventors : (1) CHRISTOPHER JOSEPH WITHERS, (2) DAVID WILLIAM PATTLE.

Application No. 62/Maa/89 filed on January 24, 1989.

Convention date : November 29, 1984; (No. 8430194; United Kingdom).

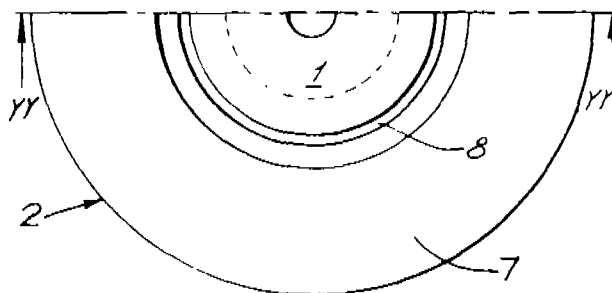
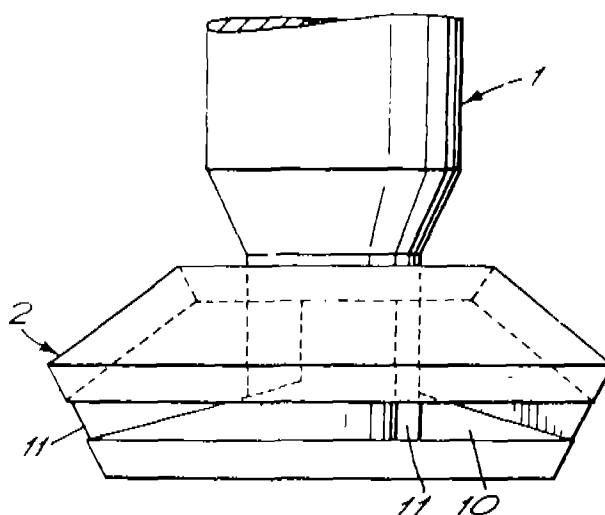
Divisional to Patent No. 165597; (Ante-dated to November 6, 1985).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

Apparatus for treating molten metal comprising a vessel and a rotary device for dispersing a gas in molten metal contained in the vessel, said device comprising a hollow shaft having a hollow rotor fixedly attached thereto, said rotor having :

- (i) a plurality of vanes each extending from the shaft, or a location adjacent the shaft, towards the periphery of the rotor whereby the hollow interior of the rotor is divided into a plurality of compartments,
- (ii) at least one aperture in the top or bottom of the rotor adjacent the shaft and at least one aperture in the peripheral surface of the rotor such that when the rotor rotates the molten metal can enter each of the compartments through the aperture or apertures in the top or bottom, and flow outwardly through the aperture or apertures in the peripheral surface, and
- (iii) at least one duct for the passage of the gas extending from the hollow interior of the shaft to each of said compartments.



Compl. Specn. 17 Pages.

Drgs. 4 Sheets.

CLASS : 19-C.

167351

Int. Cl. : F 16 b 19/00.

IMPROVEMENTS IN HIGH STRENGTH FASTENER ASSEMBLY.

Applicant : HUCK MANUFACTURING COMPANY, OF 6 THOMAS, IRVINE, STATE OF CALIFORNIA, UNITED STATES OF AMERICA.

Inventors : RICHARD D. DIXON.

Application No. 758/Cal/1985 filed on October 28, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

13 Claims

A fastener assembly comprising a pin member and a tubular collar adapted to be swaged onto the pin and a swage anvil for the same for securing a plurality of workpieces together said fastener providing a desired magnitude of retained preload on the workpieces relative to the yield strength of the fastener so that the resultant fastened joint has an ultimate design tensile strength of a preselected minimum magnitude, said pin member having an elongated shank to be located in aligned openings in the workpieces and terminating in one end in an enlarged head and at its opposite end in a grooved portion comprising a plurality of circumferentially extending pin grooves and associated pin shoulders, said tubular collar being adapted to be swaged into said pin grooves whereby the workpieces are fastened together to define the fastened joint and said resulting swaged collar has collar grooves and shoulders interlocking said pin grooves and shoulders, said pin grooves being shallow and have a radial depth defined by the relationship of $h : (h/D_u) \times 10^2$, where h is said radial depth and D_u is the diameter at defined by said pin shoulders and with said depth h selected to be shallow relative to said shoulder diameter D_u to provide a result to said relationship of no greater than around 4, said pin member and said collar being of different materials having ultimate shear strengths of different magnitudes with the ratio of the shear strengths of said pin member and said collar being such that crushing of said pin member in swage is substantially avoided, said ratio of ultimate shear strengths of said pin member to the collar being in a range of about 1.8 : 1 to about 2.4 : 1, the axial widths of said pin grooves and shoulders and said collar grooves and shoulders being preselected in accordance with the relative shear strengths of said different materials whereby said pin shoulders and the collar shoulders formed in swage are adapted to fail in shear generally at the same tensile load applied between said pin member and collar.

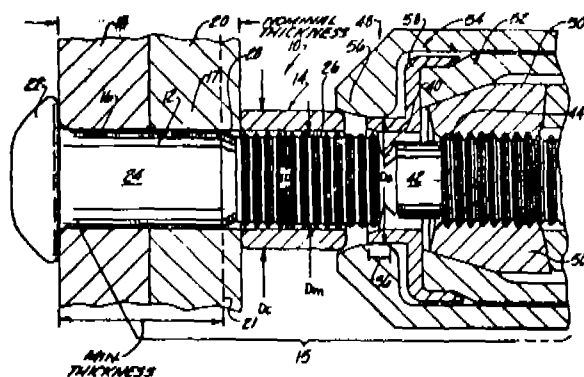


Fig. 1

Compl. Specn. 28 Pages.

Drgs. 6 Sheets.

CLASS : 20-A; C.

167352

Int. Cl. : C 02 f 1/10, 1/20.

PROCESS FOR REDUCING THE TOXICITY OF WASTE WATER FROM DITHIOCARBAMATE MANUFACTURE.

Applicant : PENNWALT CORPORATION, PENNWALT BUILDING, THREE PARKWAY, PHILADELPHIA, PENNSYLVANIA-19102, U.S.A.

Inventors : (1) JAN ALBERTUS WIJN, (2) PIETER KOOL.

Application No. 774/Cal/1986 filed on October 22, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A process for reducing toxicity of waste water from the manufacture of salts of dithiocarbamic acid comprising (i) acidifying said waste water to a pH ranging between about 2 and about 3, (ii) passing gas such as an inert inorganic gas through the acidified waste water at a rate sufficient to promote expulsion of gases formed from the decomposition of the dithiocarbamic acid salt, and (iii) optionally, adjusting the pH of said waste water toward neutral.

Compl. Specn. 14 Pages.

Drgs. nil.

CLASS : 27-G1.

167353

Int. Cl. : E 21 b 1/00; 19/00

A METHOD FOR CONSTRUCTING HUGE MODULES, AND A MODULE CONSTRUCTED BY SAID METHOD.

Applicant : HAUGESUND MEK. VERKSTED A/S, OF N-5500 HAUGESUND, NORWAY.

Inventor : TORODD EEG OLSEN.

Application No. 212/Cal/1987 filed on March 13, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

13 Claims

A method for constructing huge modules (1), particularly trusswork modules of steel for oil rigs operating at sea, wherein the completed module is defined by a surrounding module frame (2), comprising trusswork frames for sidewalls (5, 6, 7, 8) and roof (4), and at least one deck structure (3) provided therein and secured to said module frame (2), characterised in that a prefabricated deck structure (3) is introduced at ground level into said module frame (2), either through a temporary lower opening (12) in one of the sidewall frames, or from below with the module frame (2) lifted from ground level, is properly positioned inside said module frame (2), and is then controllably elevated in said module frame (2) to a desired level, whereafter the deck structure (3) is secured to the module frame (2), this sequence being optionally repeated whereby a second prefabricated deck structure is similarly introduced into said module frame (2), this sequence being optionally repeated whereby a second prefabricated deck structure is similarly introduced into said module frame (2), properly positioned and elevated to a desired level underneath the first deck structure, and is then secured to said module frame, said sequence being optionally again repeated until a desired number of deck structures is installed, any said lower opening (12) in the side wall frame(s) then being closed by providing trusswork braces (9).

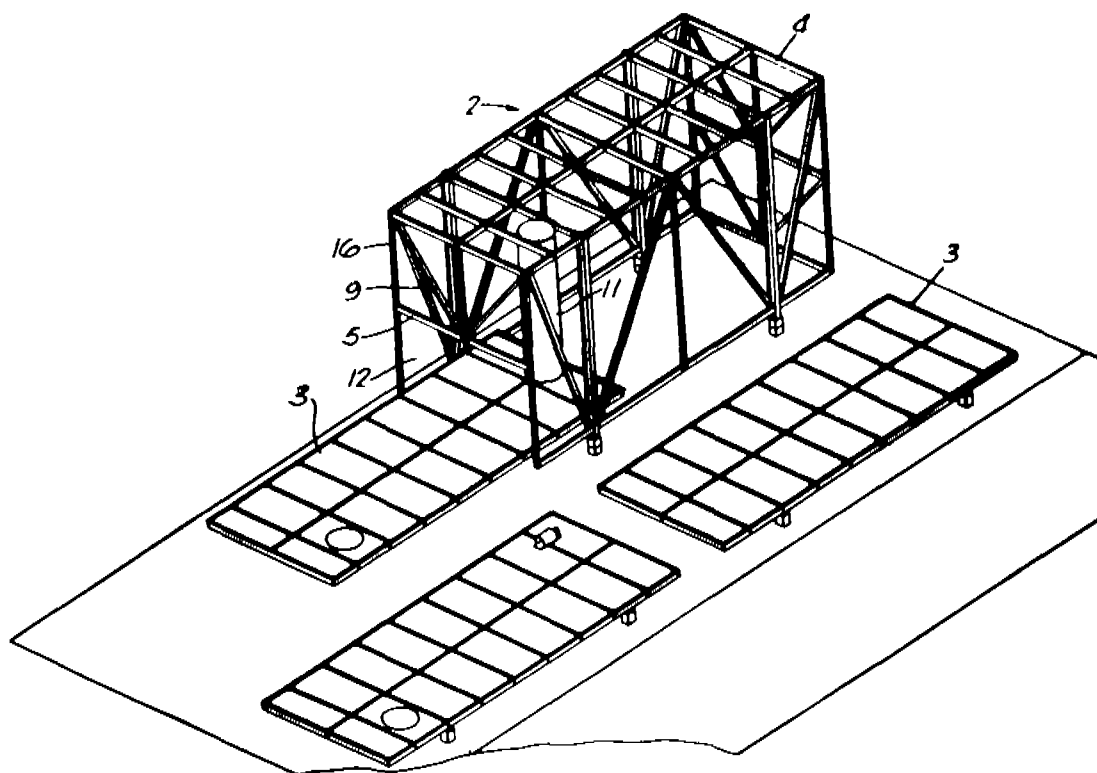


Fig. 8

Compl. Specn. 16 Pages.

Drgs. 13 Sheets.

CLASS : 188.
Int. Cl. : C 23 c 2/12.

167354

A METHOD OF CONTINUOUSLY HOT DIP COATING OF A FERRITIC CHROMIUM ALLOY STEEL STRIP WITH ALUMINIUM.

Applicant : ARMCO INC., 703 CURTIS STREET, MIDDLETOWN, OHIO, UNITED STATES OF AMERICA.

Inventors : (1) FARRELL M. KILBANE, (2) RICHARD A. COLEMAN, (3) FRANK C. DUNBAR & (4) ALAN F. GIBSON.

Application No. 221/Cal/1987 filed on March 19, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

17 Claims

A method of continuously hot dip coating a ferritic chromium alloy steel strip with aluminium, as herein described comprising the steps of :

cleaning the chromium alloy steel strip heating said cleaned strip to at least 1250°F. (677°C), maintaining the cleaned steel in a protective atmosphere of at least about 95% by volume hydrogen and has dew point of no more than about +40 f. (+4°C) and contains no more than about 20 ppm oxygen and near or slightly above the melting point of a coating metal, the said strip being further heated, if required, to a temperature between 1250°F (677°C) and 1750°F. (954°C).

dipping said cleaned strip into a molten bath of said coating metal consisting essentially of aluminium as herein described to deposit a coating layer on at least one side of said strip.

the strip base metal comprising at least about 6% by weight chromium less than 3% nickel, said coating layer being substantially free of uncoated areas and having good adherence to said base metal.

Compl. Specn. 21 Pages.

Drg. 1 Sheet.

CLASS : 145-B; D.
Int. Cl. : D 21 f 9/00, 1/06.

167355

A DISK SCREEN FOR THE MANUFACTURE OF PAPER.

Applicant : F. M. OIT CORPORATION, OF P.O. BOX 350, BELOIT, WISCONSIN, 53511, U.S.A.

Inventors : (1) JOSEPH BRUCE BIELAGUS & (2) RICHARD JOSEPH GORE

Application No. 284/Cal/1987 filed on April, 9, 1987.

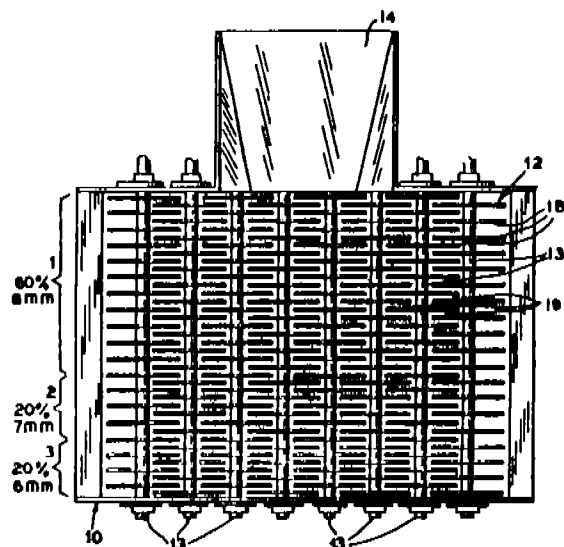
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

In a disk screen of the kind having a screening bed defined by rotary screen disk shafts extending in spaced parallel relation longitudinal from an intake end to a discharge end of the bed and especially suitable for use in screening material such as wood chips for making paper pulp characterized in that :

said shafts carrying spaced screen disks are interdigitated with the disks of adjacent shafts in predetermined interface screening slot opening spaced relation; and

a differential variance in said spaced relation along the length of said bed for attaining greater screening efficiency.



Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

CLASS : 120-Bi.

167356

Int. Cl. : F 16 n 7/36.

AN IMPROVED OIL LUBRICATION AND NOISE SUPPRESSION SYSTEM.

Applicant : CARRIER CORPORATION, AT 6304 CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK, 13221, U.S.A.

Inventors : (1) JACOB ABDO BAYYOUK & (2) MAX PAUL WASER.

Application No. 304/Cal/1987 filed on April 20, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

An improved oil lubrication and noise suppression system comprising a crankshaft defining a centrifugal oil pump and a lubricant pick up tube the improvement comprising :

an impeller axially asymmetrically mounted on said pickup tube such that upon rotation of said crankshaft, said oil pickup tube and said impeller as a unit caused the production of froth and the pumping of oil without the formation of a stable vortex, said axial asymmetry being greater than 1.75° .

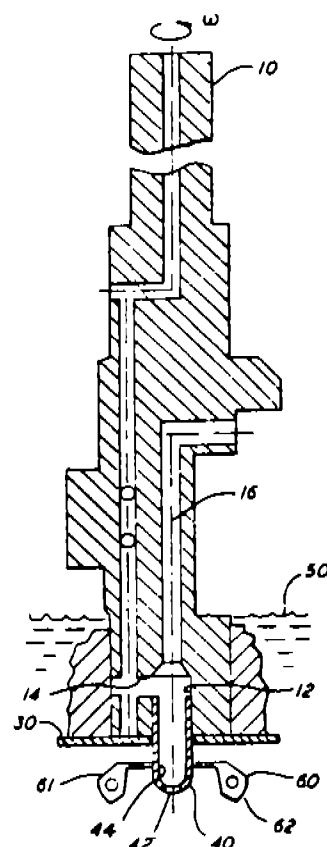


Fig. 1

Compl. Specn. 7 Pages.

Drgs. 2 Sheets.

CLASS : 107-B.

167357

Int. Cl. : F 02 b 29/00.

AN INTERNAL COMBUSTION ENGINE.

Applicant & Inventor : JEAN FREDERIC MELCHIOR, OF 126 BLD DU MONT-PARNASSE, 75 014 PARIS, FRANCE.

Application No. 305/Cal/1987 filed on April 20, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

14 Claims

An internal combustion engine operating on a two-stroke cycle comprising :

at least one work chamber including a cylinder and a reciprocating piston in said cylinder, said work chamber having a predetermined compression ratio;

an engine shaft which rotates in synchronization with the movement of said piston and defining an angular position of a cycle of operation of said work chamber;

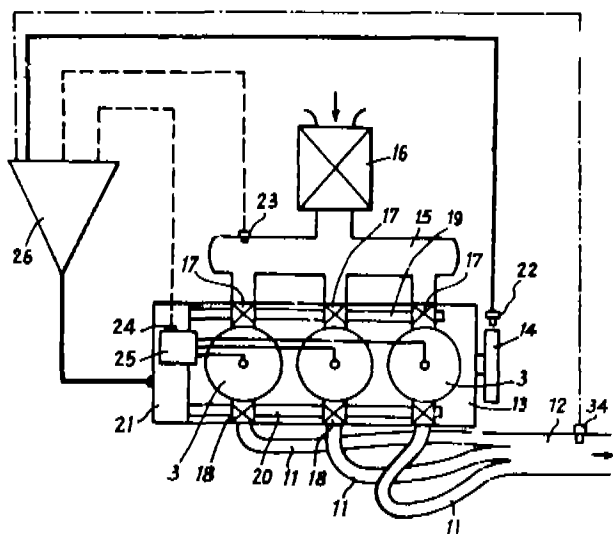
an intake means for allowing the introduction of air into said work chamber when in an open position and for preventing any fluid flow through said intake means when in a closed position, said intake means operating in synchronization with the rotation of said engine shaft;

an exhaust means for allowing the removal of exhaust gases from said work chamber when in an open position and for preventing any fluid flow through said exhaust means when in a closed position, said exhaust means operating in synchronization with the rotation of said engine shaft;

a supercharger including (a) a turbine having a gas inlet which communicates with the exhaust gases from said work chamber to drive said turbine, and (b) a compressor which is mechanically driven by said turbine and which has an air outlet which communicates with said intake means;

a sensing means for sensing at least one power-dependent parameter of the engine during operation and for determining when the engine is operating at one of start up and low power in contrast to a normal operation; and

a control means for controlling a normal opening of said intake means and of said exhaust means as a function of the angular position of said rotating engine shaft during the normal operating of the engine, said control means further being responsive to the sensing of said sensing means of the start up or low power operation of the engine to advance a beginning of the opening of said intake means relative to a beginning of the opening of said exhaust means during normal operation while maintaining the opening of said intake means subsequent to a beginning of the opening of said exhaust means whereby a sufficient quantity of fresh air is supplied by said supercharger to said intake means during all operation.



Compl. Specn. 35 Pages.

Drgs. 3 Sheets.

CLASS : 25-C.

167358

Int. Cl. : C 04 b 35/00, 35/56

METHOD OF MAKING SHAPED CERAMIC COMPOSITES WITH THE USE OF A BARRIER.

Applicant : LANXIDE TECHNOLOGY COMPANY, LP., TRALEE INDUSTRIAL PARK NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) MARC S. NEWKIRK; (2) ROBERT C. KANTNER.

Application No. 361/Cal/1987 filed on May 4, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

35 Claims

A method for producing a self-supporting ceramic body or ceramic composite body by oxidation of a parent metal to form a polycrystalline material comprising (1) the oxidation reaction product of said parent metal with an oxidant including a vapor-phase oxidant, and, optionally, (2) one or more metallic constituents, said method comprising the steps of : (a) providing at least a portion of said parent metal with a barrier means such as herein described at least partially spaced from said parent metal for establishing at least one surface of the ceramic body; (b) heating said parent metal to a temperature above its melting point but below the melting point of the oxidation reaction product to form a body of molten metal, and optionally (c) contacting a zone of a mass of filler material with said body of molten metal, said mass of filler material having at least one surface defined by said barrier means such that formation of said oxidation reaction product will occur into said mass of filler material and in the direction toward said barrier means, and at said temperature (i) reacting said molten metal with said oxidant to form said oxidation reaction product, (ii) maintaining at least a portion of said oxidation reaction product in contact with and between said molten metal and said oxidant, to transport molten metal through the oxidation reaction product towards said barrier means and into contact with said oxidant so that oxidation reaction product continues to form at the interface between the oxidant and previously formed oxidation reaction product, that has infiltrated said mass of filler material, when said optional filler material is employed and (iii) continuing said reaction to said barrier means to produce said ceramic body or ceramic composite body having said surface established by said barrier means.

Compl. Specn. 44 Pages.

Drgs. 9 Sheets.

Int. Cl. : G 05 f 5/00; H 02 p 6/00.

167359.

RECTIFIER ELECTRIC DRIVE DEVICE.

Applicant : BELORUSSKY GOSUDARST VENNY UNIVERSITETIMENI V.I. LENINA, OF MINSK, LENINSKY PROSPEKT, 4, USSR.

Inventors : (1) LJUDMILA IVANOVNA MATJUKHINA, (2) ALEXANDR SERGEEVICH MIKHALEV, (3) SERGEI NIKOLAEVICH SIDORUK, (4) IGOR MIKHAILOVICH CHUSHENKOV,

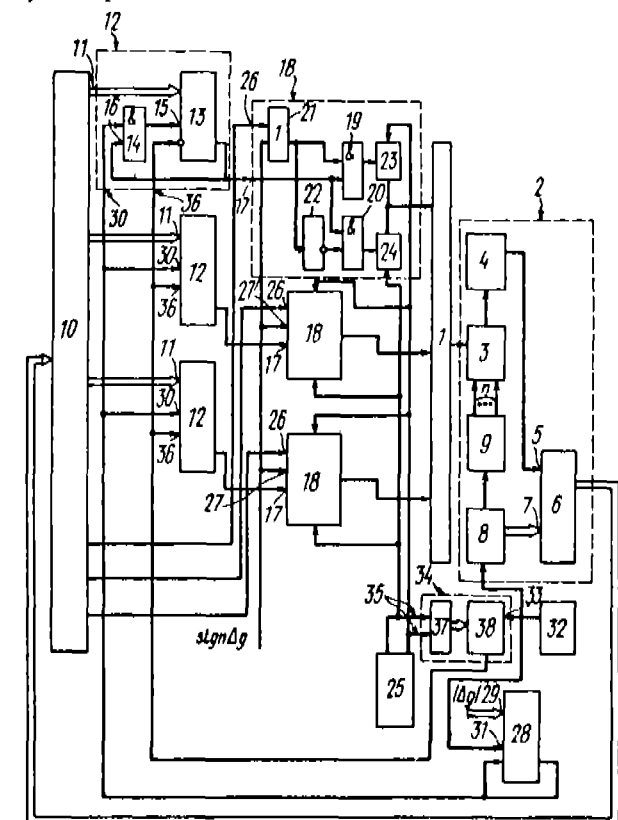
Application No. 537/Cal/1987 filed on July 13, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

1 Claim

A rectifier electric drive device comprising a synchronous machine provided with a shaft position transmitter having its output electrically connected to an address input of a permanent storage containing codes of duration and polarity of power supply pulses of the

windings of the synchronous machine; the output bus of the permanent storage being connected to control inputs of code-to-pulse duration converters whose number equals the number of windings of the synchronous machine; the outputs of the code-to-pulse duration converters being connected to the pulse duration master inputs of switching device in a number equalling the number of windings of the synchronous machine, whose pulse polarity master inputs are connected to respective outputs of the permanent storage, control signal polarity master inputs are joined and adapted to receive a polarity signal of the control signal, and the outputs thereof are connected to the windings of the synchronous machine; a master oscillator whose output is connected to an input of a controlled frequency divider whose control input receives a control signal modulus code and whose output is connected to pulse frequency master inputs of the code-to-pulse duration converters, and a voltage source connected to switching devices, characterized in that it also comprises a voltage-to-pulse-repetition period conversion unit having its first input connected to the voltage source, its second input to the output of the master oscillator, and its output to triggering inputs of the code-to-pulse duration converter, said conversion unit includes an analog-to-digital converter having its input serving as the first input of the voltage-to-pulse repetition period conversion unit, and a controlled frequency divider having its control unit connected to the output of the analog-to-digital converter, its other input and output serving, respectively, as the second input and output of the voltage-to-pulse repetition period conversion unit.



Compl. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS : 153
Int. Cl. : G 02 c 13/00.

167360

METHOD OF TREATING CONTACT LENSES.

Applicant : AZIENDE CHIMICHE RIUNITE ANGELINI FRANCESCO A.C.R.A.F. S.p.A., OF VIALE AMELIA 70, 00181 ROMA, ITALY.

Inventor : MAURO DE GREGORIO.

Application No. 563/Cal/1987 filed on July 22, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A method of treating a contact lens wherein the lens is contacted with a solution comprising from 0.05 to 2% of bendazac, 5-hydroxy-bendazac, or the corresponding amount of a salt thereof with an inorganic or organic physiologically acceptable base dissolved in a non-toxic solvent which is compatible both with the lens and the said compound and which is suitable for undergoing sterilization.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS : 141-A.
Int. Cl. : C 22 b 1/24.

167361

PROCESS OF MAKING BINDERLESS BRIQUETS FROM STEELWORKS DUSTS.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, W. GERMANY.

Inventors : (1) LADISLAUS SZEKELY, (2) FRED STIELER.

Application No. 18/Cal/1988 filed on January 08, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A process for making binderless briquets from fine-grained steelworks dust, which contain metallic iron, which briquets are intended for use in smelting processes, wherein the steelworks dusts are heated and in a hot state are briquetted on a briquetting roll press and the hot briquets are air-cooled, characterised in that the steelworks dusts, which contain more than 15% metallic iron, are heated to a briquetting temperature above 500°C in an externally heated rotary kiln under an atmosphere which is inert to the metallic iron such as nitrogen, the heated dusts are briquetted in the briquetting roll press under an inert atmosphere and under a roll pressure from 60 to 150 kN/cm roll width, the hot briquets are separated under an inert atmosphere from the fines, the briquets are air-cooled to a temperature below 130°C and the fines are recycled to the rotary kiln.

Compl. Specn. 12 Pages.

Drg. 1 Sheet.

CLASS : 10-F.
Int. Cl. : F 42 b 13/00.

167362

PENETRATING PROJECTILE WITH HARD CORE AND DUCTILE GUIDE AND METHOD OF MAKING IT.

Applicant : SOCIETE FRANCAISE DE MUNITIONS, OF 6 RUE SAINT MARC, 75002 PARIS, FRANCE.

Inventor : PIERRE SOMMET.

Application No. 114/Cal/1988 filed on February 09, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

A penetrating projectile of a caliber equal to or less than 40 mm, the projectile including a core (1) having a front point (2), the core being composed of a hard and/or high density metal or metallic alloy such as hardened, steel or tungsten carbide having a portion (4) to the rear of the point surrounded by a guide (3) having a generally cylindrical wall of ductile metal, the portion of the core which is surrounded by the guide being provided with projection (5) and depressions (6) and the guide being crimped onto said portion of the core by radial compression such that the internal surface of the guide is fixed axially and rotationally to said portion of the core by means of the projections and depressions, wherein the improvement comprises:

the guide (3) is crimped onto said portion (4) of the core (1) by electromagnetic forming and

the projections and depressions on said portion (4) of the core comprise undulations (5, 6), the internal surface of the guide (3) in contact with said portion of the core assuming the profile of the undulations (5, 6), and the external surface of the guide (3) reproducing the profile of the undulations (5, 6),

the form of the undulations on the portion of the core being predetermined such that the undulations reproduced on the external surface of the guide (3) present desired ballistic properties.

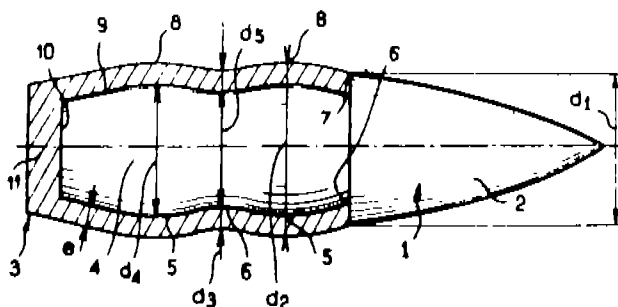


Fig. 1

Compl. Specn. 15 Pages.

Drgs. 2 Sheets.

CLASS : 64-B1.
Int. Cl. : H 01 r 11/00.

167363

A BACKPLANE FOR A SUBRACK HAVING MODULES.

Applicant : SIEMENS AKTIENGESELLSCHAFT OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventor : KLAUS BREMER.

Application No. 243/Cal/1988 filed on March 23, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A backplane for a subrack having modules, comprising :

plurality of socket connectors arranged in parallel next to each other on a side of the backplane that face the modules, each socket connector comprising a bus contact pin;

a plurality of contact pins on said socket connectors arranged to form a wiring field on a side of the backplane that faces away from the modules;

at least one bus having at least one bus line, each bus contact pin of said socket connectors of said bus having an associated contact pin, said contact pins being electrically interconnected with the bus line; and

a jumper plug for electrically connecting said bus contact pins to their associated contact pins.

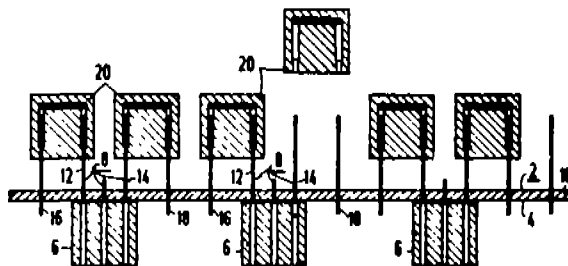


Fig. 1

Compl. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS : 185-A.
Int. Cl. : A 23 f 3/12.

167364

IMPROVED CTC MACHINE.

Applicant : TRADE & INDUSTRY PRIVATE LIMITED, AT 19, R. N. MUKHERJEE ROAD, CALCUTTA-700001, WEST BENGAL, INDIA.

Inventors : OM PRAKASH BAGARIA AND OLAKANGIL JOSEPH JOHNY.

Application No. 176/Cal/1988 filed on February 29, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

An improved CTC machine, as desired and claimed in Indian Patent Application No. 164982 (Filing No. 250/Cal/87), wherein the free end of the spring lever is adapted to be latched onto a guide knob, which is rotatably mounted on the machine frame with reference to its central axis, and a limit switch is provided, which, when tripped, is capable of cutting off power to any or all the motors for stopping the machine, the arrangement being such that on rotation of the said guide knob in either direction, the spring lever is caused to have angular movement in either direction within the tolerance limit of its not being unlatched whereby the radial gap, between the spring-loaded roller and the other roller is capable of being adjusted in micro-fine manner, as and when desired, and the said limit switch is disposed such that on downward fall of the spring lever, in the event of being unlatched, the free end of the spring lever is adapted to activate the limit switch for its tripping.

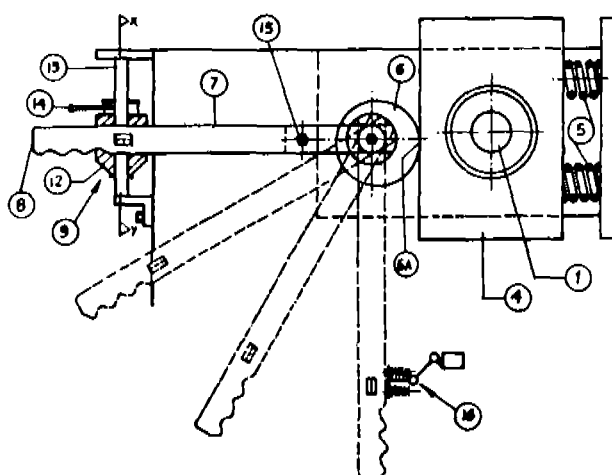


Fig. 1

Compl. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS : 55-A; E1.
Int. Cl. : A 01 n 35/00, 35/02, 35/04.

167365

METHOD OF PREPARING A SYNERGESTIC DISINFECTING AND STERILIZING COMPOSITION.

Applicant: SURGIKOS, Inc, OF 5200 ARBROOK BLVD.
ARLINGTON, TEXAS 76010, UNITED STATES OF AMERICA.

Inventors: (1) NORMAN IRVING BRUCKNER, (2)
MICHAEL DAVID GORDON, (3) RONALD GENE HOWELL.

Application No. 351/Cal/1988 filed on May 02, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Calcutta.

10 Claims

A method of preparing of synergistic sterilizing and disinfecting composition which comprises preparing an aqueous solution comprising from 0.25% to 6% by weight of a saturated dialdehyde having 2 to 6 carbon atoms such as malonaldehyde, succinaldehyde, glutaraldehyde, adipaldehyde and oxalaldehyde preferably glutaraldehyde and from 0.005% to 1% by weight of a water soluble aromatic dialdehyde selected from the group consisting of phthalaldehyde, isophthalaldehyde and terephthalaldehyde.

Compl. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS : 28-C; 33-H; 35-E; 108-C; 130-F.
Int. Cl. : B 67 d 5/37; C 04 b 35/14, 35/64.

167366

METHOD FOR THE MANUFACTURE OF FUSED SILICA REFRACTORY ARTICLES.

Applicant: DALMIA INSTITUTE OF SCIENTIFIC &
INDUSTRIAL RESEARCH, RAJGANGPUR-770017, DIST.
SUNDARGARH, ORISSA, INDIA.

Inventors: (1) Dr. JAJNYADATTA PANDA, (2) DR.
NILACHAL SAHOO, (3) JAYANTA KUMAR SAHU.

Application No. 612/Cal/1988 filed on July 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Calcutta.

3 Claims

A method for the manufacture of fused silica article such as submerged entry nozzles and shrouds which comprises preparing a slip of ground fused silica with 15-18% water wherein the particle size of the fused silica powder below 10 μ , does not exceed 55% and particle size above 60 μ , does not exceed 10%;

Adding an additive to the slip, casting the article in a Plaster of Paris mould, withdrawing the green cast article from the mould, drying the green cast article and firing the dried article up to a maximum temperature 1350°C;

Wherein the said additive comprises a mixture of silicon metal powder and an organic compound in the ratio of 1:1 to 1:20 and further, wherein the said organic compound consists of triethylamine, diethylamine and methyl cellulose.

Compl. Specn. 6 Pages.

Drg. NIL.

CLASS : 35-E.
Int. Cl. : C 04 b 35/00.

167367

METHOD FOR THE PREPARATION OF BASIC REFRACTORY BRICKS.

Applicant: DALMIA INSTITUTE OF SCIENTIFIC &
INDUSTRIAL RESEARCH, AND ORISSA CEMENT LIMITED,
OF RAJGANGPUR-770017, DIST. SUNDARGARH, ORISSA,
INDIA.

Inventors: (1) DR. JAJNYADATTA PANDA, (2) DR.
NILACHAL SAHOO, (3) BJAGIRATHA MISHRA.

Application No. 613/Cal/88 filed on July 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Calcutta.

7 Claims

A method for the preparation of basic refractory bricks which comprises preparing a mixture of the following ingredients in the following proportions :

sintered and/or fused Magnesia—70 to 95% by wt. Graphitic Material—30 to 5 % by wt. Resin—4 to 6 parts by wt. Catalyst (Hexamine)—Upto 0.6 part by wt. antioxidant—1 to 20 parts by wt.	} } } } }	(Total 100% by wt.)
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Intimately mixing the ingredients with water to a mouldable consistency, moulding the wet mixture into the shape of bricks and tempering the bricks at above 85°C., preferably from 120°C to 300°C, wherein the antioxidant comprise a mixture of metallic powder and silicon carbide in the ratio of 1 : 1 to 1 : 6 and also wherein the said metallic powder comprises aluminium, silicon or magnesium metal powder either singly or in any combination thereof.

Compl. Specn. 7 Pages.

Drg. NIL.

CLASS : 33-D.

167368

Int. Cl. : B 22 d 23/00, 27/00, 43/00.

A METHOD FOR OBTAINING IMPURITY-FREE MOLTEN IRON FROM MOLTEN IRON HAVING IMPURITIES.

Applicant : GEORG FISCHER AKTIENGESellschaft, OF CH-8201 SCHAFFHAUSEN, SWITZERLAND.

Inventors : (1) FRANZ HOFMANN, (2) ROLF RIETZSCHER, (3) WOLFGANG KAETTLITZ, (4) HANS GUNTER TRAPP, (5) JURGEN OTTO, (6) GERD TRINKL.

Application No. 693/Cal/1988 filed on August 18, 1988.

(Divisional of Application No. 60/Cal/85 anti-dated to January 30, 1985.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims.

A method for obtaining impurity-free molten iron from molten iron having impurities which comprises :

- Providing a flowing mass of molten iron;
- Providing a ceramic filter made from a high melting ceramic material having an open cell foam structure, with at least one of afflux surface for filtering molten cast iron, said ceramic filter comprising an interior region surrounded by an outer region wherein, the bulk density of the said outer region of the ceramic filter is higher than the bulk density of the said interior region of said ceramic filter, said ceramic filter further having a ratio of filter surface to filter volume in the range of about 0.0003 to 9 m²/cm³, a specific filter resistance in the range of about 0.1 to 0.9 bar-cm at a fluid flow of 5 m³/hour, and a pressure loss Δp across the filter which depends on the specific resistance of the filter ρ , the filter length ℓ , and the surface area of the afflux plane F in accordance with the formula : $\Delta p \propto \rho \ell F$
- Providing said ceramic filter in a casting system near the location where the molten iron having impurities has its highest kinetic energy;
- Causing said mass of molten iron to flow tangentially by the afflux plane of said ceramic filter; and
- Collecting the filtered molten metal so obtained as impurity-free molten iron.

Compl. Specn. 15 Pages.

Drg. 1 Sheet.

CLASS : 35-C.

167369

Int. Cl. : C 04 b 7/02.

A PORTLAND CEMENT AND A PROCESS FOR MANUFACTURING THE SAME.

Applicant : THAI-HAN CO., LTD., OF 968 RAMA-IV-ROAD, U-CHULLANG BUILDING, 7TH FLOOR, BANGKOK-10500, THAILAND.

Inventor : DR. HONG WON PYO.

Application No. 1141/Cal/1983 filed on September 19, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A Portland cement consisting of 99.6—92.5% dry powder of Portland cement clinker, 0.2—2% carbon black, 0.2—1% of asphalt having softening point between 40°—90°C, and optionally 2 to 5% of gypsum.

Compl. Specn. 15 Pages.

Drgs. nil.

CLASS : 32-F²C ; 55-E⁴.

167370

Int. Cl. : C 07 c 47/57.

METHOD FOR PURIFICATION OF 2, 2'-DI-(1, 6, 7-TRIHYDROXY-3-METHYL-5-ISOPROPYL-8-NAPHTHAL-DEHYDE).

Applicant : INSTITUT BIOORGANICHESKOI KHIMII AKADEMII NAUK UZBEXKOI SSR USSR, TASHKENT, PROSPEKT M. GORKOGO, 83, USSR.

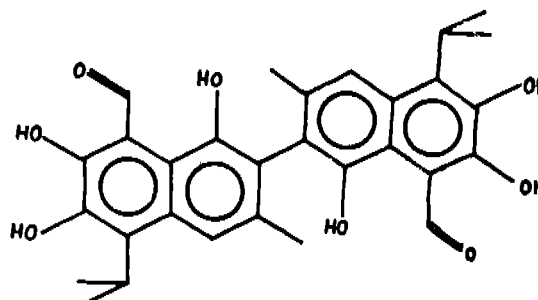
Inventors : (1) BAKHTIYAR TULYAGANOVICH IBRAGIMOV, (2) SAMAT ABDILAKHATOVICH TALIPOV, (3) RUS-TAM GARUNOVICH MARDANOV, (4) TAKHIR FATI-KHOVICH ARIPOV.

Application No. 33/Cal/1989 filed on January 12, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

An improved method for purification of 2, 2'-di-(1, 6, 7-trihydroxy-3-methyl-5-isopropyl-8-naphthaldehyde) (gossypol) having the structure as shown in the accompanying drawings by way of crystallization thereof from an organic solvent, separation of the resulting crystalline precipitate and drying thereof to give the desired product, wherein said crystallization is effected from a solution of 2, 2'-di-(1, 6, 7-trihydroxy-3-methyl-5-isopropyl-8-naphthaldehyde) in diethyl ether with a concentration of from 0.02 to 0.2 g/ml. which is added with hexane in an amount of from 0.25 to 3 parts by volume of diethyl ether and the resulting mixture is kept at a temperature of from 10 to 30°C till completion of the crystallization process.



Compl. Specn. 9 Pages.

Drg. 1 Sheet.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration in the entry.

Class 1. No. 161919. Golden Peacock Overseas Pvt. Ltd., 3E/2, Jhandewalan Extn., New Delhi-110055, India. Indian Company. "Push for Lampholder". March 8, 1990.

Class 1. No. 161943. R. K. Enterprises of A-80, G. T. Karnal Road, Industrial Area, New Delhi. A proprietary firm. "Tiffin Carrier". March 16, 1990.

Class 3. No. 161917. Eastern Medikit Pvt. Ltd., Indian Company of 3 Dr. G. C. Narang Marg, Delhi, India. "Drip Chamber of I.V. Set". March 7 1990.

Class 4. No. 161942. Everest Building Products Ltd., an Indian Company of Block 'D', Shirsagar Estate, Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. "Roofing Sheet". March 15, 1990.

Copyright extended for the second period of five years.

No. 153742 Class 1.

No. 155769, 160700, 160701, 156065, 156066, 157866, 157867, 158670, 158671, 156496, 156497, 158019, 158021 & 158022 Class 3.

Copyright extended for the third period of five years.

No. 150096 Class 1.

No. 150095, 160700, 160701, 156065, 156066, 157866, 157867, 158670, 158671, 156496, 156497, 158019, 158021 & 158022.

R. A. ACHARYA,
Controller General of Patents,
Designs and Trade Marks.